

DERWENT-ACC-NO: 1981-88078D

DERWENT-WEEK: 198345

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TITLE: Power cable semiconductor layer compsn.  
contains epoxy!  
resin without hardening to improve water tree  
resistance

PATENT-ASSIGNEE: SHOWA ELECTRIC WIRE CO LTD[SHOX]

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
<u>JP 56132709 A</u>	October 17, 1981	JA
JP 83046802 B	October 19, 1983	JA

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 56132709A	N/A	1980JP-017660
February 15, 1980		

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	H01B7/28	20060101
CIPS	H01B1/24	20060101
CIPS	H01B9/02	20060101

ABSTRACTED-PUB-NO: JP 56132709 A

BASIC-ABSTRACT:

In a power cable providing a semiconductor layer on a conductor or an crosslinked polyethylene insulator, the semiconductor layer is composed of a semiconductor compsn. to which is added 0.5-15 wt. % epoxy resin contg. no hardening agent. Water-tree resistance is improved.

In an example, 100 pts.wt. ethylene-vinylacetate copolymer (contg. vinylacetate 30%) + 70 pts.wt. Vulcan XC-72 (RTM, carbon black) + 1 pt.wt. dicumyl oxide + 0.2 pts.wt. Antage crystal (RTM) ageing inhibitor), were mixed. Bisphenol

epoxy resin (Araldite CT-200) was added thereto, which was kneaded to give a semiconductor compsn. It was extruded on internal and external surfaces of a conductor. Metal tape and covering tape were wound on to give a crosslinked insulating cable of 22 KV, 1 x 100 mm<sup>2</sup>.

TITLE-TERMS: POWER CABLE SEMICONDUCTOR LAYER COMPOSITION CONTAIN POLYEPOXIDE

RESIN HARDEN IMPROVE WATER TREE RESISTANCE

DERWENT-CLASS: A17 A85

CPI-CODES: A04-G02E; A05-A01E2; A08-M09; A12-E02;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0218 0231 0239 0240 0241 0789 1282 1373 1601 2020 2198 2217 2266

2293 2421 2431 2437 2438 2493 2552 2599 2726 2727 2728

Multipunch Codes: 034 04- 040 041 046 047 199 220 221 226 231 247 266 267 307

308 310 329 336 341 359 400 415 431 437 443 444 47& 473 477 506 510 541 688 720

034 04- 040 041 046 047 066 067 199 220 221 226 231 247 266 267 27& 307 308 310

329 336 341 359 400 415 431 437 443 444 47& 473 477 506 510 541 720